CD3e Monoclonal Antibody (145-2C11), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Bacteria, Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11149861

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	111 Publications
Functional Assay (FN)	-	1 Publication
T-Cell Activation (TCA)	-	1 Publication

Product Specific Information

Description: The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

Applications Reported: This 145-2C11 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 145-2C11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable

of detecting this fluorochome.

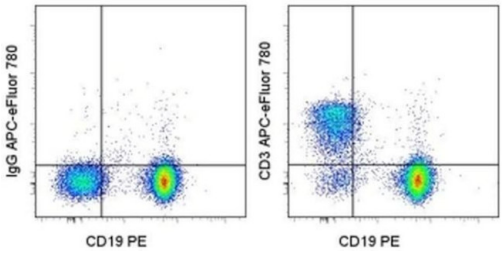
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD3e Monoclonal Antibody (145-2C11), APC-eFluor™ 780, eBioscience™



CD3e Antibody (47-0031-82) in Flow
Staining of C57Bl/6 splenocytes with Anti-Mouse CD19 PE (Product # 12-0193-82) and 0.5 µg of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (Product # 47-4888-80) (left) or 0.5 µg of Anti-Mouse CD3e APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

115 References

Immunohistochemistry (Frozen) (2)

International journal of cancer

Year
2006

HSP70 vaccine in combination with gene therapy with plasmid DNA encoding sPD-1 overcomes immune resistance and suppresses the progression of pulmonary metastatic melanoma.

Authors: Geng H,Zhang GM,Xiao H,Yuan Y,Li D,Zhang H,Qiu H,He YF,Feng ZH

Investigative ophthalmology & visual science

Year
2005

CCR5-deficient mice develop experimental autoimmune uveoretinitis in the context of a deviant effector response.

Authors: Takeuchi A,Usui Y,Takeuchi M,Hattori T,Kezuka T,Suzuki J,Okunuki Y,Iwasaki T,Haino M,Matsushima K,Usui M

Flow Cytometry (111)

Immunity, inflammation and disease

Year
2023

NCR negative group 3 innate lymphoid cell (NCR^{-} ILC3) participates in abnormal pathology of lung in cigarette smoking-induced COPD mice.

"Published figure using CD3e monoclonal antibody (Product # 47-0031-82) in Flow Cytometry"

Authors: Chu S,Ma L,Yang X,Xiao B,Liang Y,Zheng S,Li L

Diabetes

Year
2023

Adipocyte-Secreted IL-6 Sensitizes Macrophages to IL-4 Signaling.

"Published figure using CD3e monoclonal antibody (Product # 47-0031-82) in Flow Cytometry"

Authors: Luan D,Dadpey B,Zaid J,Bridge-Comer PE,DeLuca JH,Xia W,Castle J,Reilly SM

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FN (1) **TCA (1)**